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The booklet by V. M. Gerst and P. I. Popov deals with high-speed milling, grinding, and thread cutting.

Taking into account the introduction of high-speed methods, the authors briefly discuss the basic difficulties encountered in the attempt to perfect high-speed metal cutting.

Results of research on cutting methods are given; in particular are diagrams showing how durability depends on cutting speed, gear feed (padachi na zub), depth of cut, and other factors.

Being familiar with the use of high-speed cutting methods in machining individual machine parts, the authors emphasize that the transition to high-speed cutting of parts in relatively short machining time makes it necessary to replace equipment for greater efficiency.

N. K. Petrov and P. P. Romanov theorized on the experience of a number of plants on series production which has shown the introduction of sectional cutters to be especially effective.

In the first chapter they explain sectional cutters, their importance, and fields of application. Later the authors bring in plant specifications for mandrels and rings for these cutters, and explain their classifications. They deal with the basic designs of sectional cutters, the accuracy reached by them while working, and the tolerance for each section comprising the cutter. In connection with the above problem, the book includes information on methods for determining tolerance for outside diameters of sectional cutters while machining two- and multistage profile parts and for determining the width and tolerance for the manufacture of slot mills.

A. S. Azarov's booklet deals with automatic checking devices for universal lathes.

V. I. Trapitsyn made the first attempt to give the general characteristics of automatic-transfer machine lines and briefly described ways of making automatic the mechanisms for these lines. He also described the automatic-transfer machine lines which are in operation in the USSR and in the US, citing brief data about the automatic-transfer machine lines in automatized shops and plants.

In his book, he erroneously states that automatic-transfer machine lines for machining blocks for low-powered automobiles have been set up at the ZIS (Plant imeni Stalin).

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